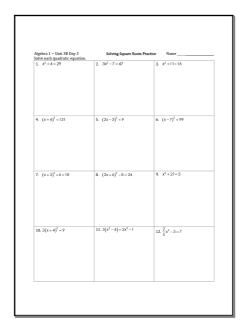


TOTD Solve by		Name reserved:	
Solve each equation	by factoring.		
1) $(7x + 1)(x + 7) = 0$)	2) $p^2 - 6p + 5 = 0$	
3) $r^2 - 49 = 0$		4) $2a^2 - 13a - 7 = 0$	
5) n ² + n = 0			
0 2839 Kasa 5 o ft wa	er SLC. All rights tearre	od. Node with Infinite Algebra L.	

Item 1	8
Constru	octed-Response
can he : \$12.75	expicals bottless and cans. He earns 3.0 cents for each bottle he recycles and 5 cents for each recycles. After recycling a bag of bottless and cans. he gist are receiglt that states he anend and recycled a total of 210 bottless and cans. To determine the number of bottless and the of came he recycled. Shame writes the system of equations below.
	x + y = 210
	10x + 5y = 1275
Part A	What does the x represent in terms of the situation? Write your answer in the space provided.
Part B	Shaun graphs lines to represent the equations in his system. What are the coordinates of the point where the two lines intersect? Write your answer in the space provided.
Part	A
Part	В
rait	

Algebra 1 ~ Unit 3B Day 2 MGSE9-12.A.REl.4: I can solve a quadratic equ	Solving Quadratic Equations by Square Roots ustion with one variable.
A square root is written with the	
The opposite of being something The goal is to get the variable set	ng being squared is to take the quared by itself!
What do you think we should do? ONE	ë step:
1. $x^2 = 25$	$x^2 = 32$
20	* -32
Solve the following TWO Step equation	18:
3. x ² - 7 = 9	4. x ² + 13 = 5
5. 2x ² = 14	63x ² = 48
Solve the following THREE step equati	ODE
7. $5v^2 + 5 = 410$	OIIS:
3V +3 = 410	
Solve the following MULTI step equation	ons:
8. $(x+3)^2 = 1$	9. $(x+3)^2+7=-2$
10. $4(x-10)^2 = 25$	11.3(x + 3)2 - 12 = 0



Algebra 2 O 2010 Form Solving Quadratics b	y Factoring/Square Roots	
Solve each equation by factoring or		
1) $m^2 - 3m + 2 = 0$	2) $n^2 + 5n = 0$	
3) n ² - 16 = 0	4) $7v^2 + 23v + 6 = 0$	
3) n16=0	4) $/v^- + 23v + 6 = 0$	
5) r ² = 16	6) $36n^2 = 16$	
7) $8k^2 - 2 = 390$	8) $(x+4)^2 = 25$	

Ma	arch 20, 2019, Wednesday
	Item 15 Selected Response The table defines a quadratic function.
Item 14 Selected-Response	x y -1 5 0 1 1 -1 3 1
Senecto response Within Value Is an Irrational number? A. 4 + 17 B. 12 18 C. 13 13 D. 13 - 13	What is the average rate of change between $x=-1$ and $x=17$ A. undefined B. $-\frac{1}{3}$ C. -3 D. -4

Algebra 1 \sim Unit 3B Day 3 MCC9-12.A.REI.4b: I can solv		g Quadratic Equations by Completing the Square c.
	ons can be factored into Pen nese are called Perfect Squa	rfect Squares. Factor the following quadratic are Trinomials:
$x^2 + 6x + 9$	$x^2 - 10x + 25$	$x^2 + 12x + 36$
o Find the constant (c)	ct square trinomial, the	term is missin Idle term then squaring it. Put this number in th quare."
	x2 -	+ 14x +
 Create perfect square trin perfect square trinomials 		per that completes the square. Then factor the
x2 + 20x +	x2 - 4x +	x2 + 5x +
		Completing the Square Example #1
Solve the following equation I square:	by completing the	$x^2 + 8x - 20 = 0$
Step 1: Get all variables on or without variables on the othe		
Step 2: Find the number that the left side of the equation. a sides.		$x^2 + 8x + \underline{\hspace{1cm}} = 20 + \underline{\hspace{1cm}}$
Step 3: Factor the perfect squ side of the equation. Simplify equation.		
Step 4: Take the square root	of both sides.	
Step 5: Set up the two solution	n possibilities and solve.	

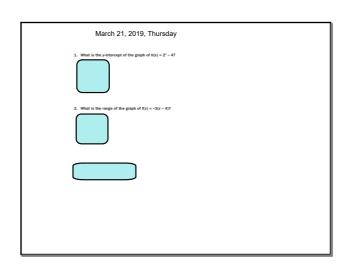
Let's try!	
Solve each equation by completing the square.	
1) r ² + 14r - 45 = 6	2) $m^2 - 16m + 24 = 2$
1) F + 14F - 45 = 6	2) $m^{-} - 10m + 24 = 2$

Algebra 1 ~ Unit 3B Day 3	Solving by Completing the Square Name
MCC9-12-A-REI-4b	
to both sides.	
Solve each equation.	
1. x ² -10x-54=0	2. $x^2 - 18x + 77 = 0$
3. x ² +20x-73=0	4. x ² +6x-72=-8
5. x ² -10x-56=6	6. x ² - 14x - 75 = 8

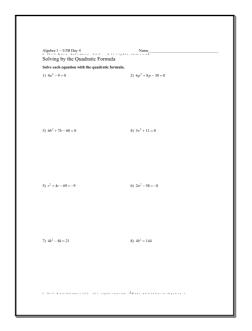
Algebra 2	Name_
TOTD Solving Quadratics (Factor Solve each equation by factoring.	ing/Sq. Root/Completing the Square)
Solve each equation by factoring. 1) $k^2 - 8k = 0$	2) $n^2 - 16 = 0$
1) $k^* - 8k = 0$	2) n ⁻ - 16 = 0
3) $x^2 + 9x + 14 = 0$	4) $5m^2 - 23m - 10 = 0$
Solve each equation by taking square roots	
5) 9x ² = 9	6) $4x^2 + 3 = 403$
Solve each equation by completing the squ	
7) $x^2 - 4x + 3 = 0$	8) $k^2 + 12k + 35 = 0$

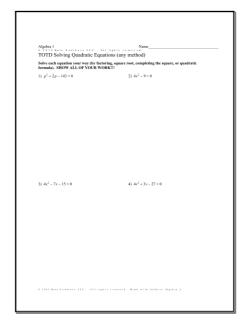
Algebra 2 0 1010 Kuria Soft Water LLC. At TOTD Solving Quadratics (F	actoring/Sq. Root/Completing the Square)
Solve each equation by factoring.	
1) $n^2 - 4n - 21 = 0$	2) $x^2 - 9 = 0$
3) $n^2 - 6n = 0$	4) $2r^2 + 15r - 8 = 0$
Solve each equation by taking square	e roots.
5) $-6x^2 = -216$	6) $8x^2 - 5 = 387$
Solve each equation by completing the	ie square.
7) $n^2 + 16n - 36 = 0$	8) $n^2 - 16n + 60 = 0$

formula:	underatic equation $(ax^2 + bx - bx)$ $x = \frac{-(b) \pm \sqrt{a}}{a}$	+ c = 0) can be found by	
Examples: Use the qua $1.\ 2x^2-10x-5=0$	dratic formula to solve for <i>x</i>		
$2.9x^2 + 2 = 3x$			
$3x^2 - 6x = 9$			



Algebra 1 – Day 4
The electrons of any quadratic equation $(ax^2+bx+c=0)$ can be found by evaluating the quadratic formula: $x=\frac{-(b)\pm\sqrt{(b)^2-4(a)(c)}}{2(a)}$ Examples: Use the quadratic formula to solve for x $2 \cdot (a)$ $3 \cdot (a)$ $3 \cdot (a)$





Solve each equation year way the factoring, square formulas, silvow ALLOF YOUR WORK:!! $1) \ p^2 + 2p - 143 = 0$ $3) \ 4x^2 - 7s - 15 = 0$	root, completing the square, or quadratic $2)\cdot 4x^2-9=0$ $40\cdot 4y^2-3y-27=0$ $41\cdot 4y^2+3y-27=0$
3) 4x² -7x - 15 = 0	Odd b To
3) 4x² -7x - 15=0	Odd b To
3) 4x ² - 7x - 15 = 0	
3) 4x ² - 7x - 15 = 0	and the Wea
3) 4x ² -7x - 15 = 0	o si de man
$3) 4x^2 - 7x - 15 = 0$	0.48.30.27-0
3) $4x^2 - 7x - 15 = 0$	0.46.12, 27=0
3) $4x^3 - 7x - 15 = 0$	4) 4 d 12 u 22 = 0
3) $4x^3 - 7x - 15 = 0$	6) 4x ² 12v 27=0
3) 4x - /x - 15 = 0	
	4) 41 + 31 - 21 - 0

